



## State Revolving Fund Loan Programs Drinking Water, Wastewater, Nonpoint Source

### PRELIMINARY DECISION OF CATEGORICAL EXCLUSION

TO ALL INTERESTED CITIZENS, ORGANIZATIONS AND GOVERNMENT AGENCIES:

**TOWN OF HEBRON  
Ultraviolet Disinfection System  
SRF # WW09 98 64 01**

**Date: August 3, 2009**

**Target Project Approval Date: August 4, 2009**

Pursuant to IC 4-4-11, the State Revolving Fund (SRF) Loan Program has determined that the project described here and in Town of Hebron Preliminary Engineering Report submitted to the SRF on March 13, 2009 will have no substantial negative environmental impact. Therefore, the SRF is issuing a preliminary decision of Categorical Exclusion from the requirements of substantive environmental review.

*How were environmental issues considered?*

The National Environmental Policy Act (NEPA) requires agencies disbursing Federal funds to include environmental factors in the decision making process. A summary of the project is attached for your review. The SRF's preliminary review has found that the proposed project does not require the preparation of either an EA or an EIS.

*Why is additional environmental review not required?*

Our environmental review has concluded that significant environmental impacts will not result from the proposed action.

*How do I submit comments?*

Comments can be submitted to:

Amy Henninger, Senior Environmental Manager  
SRF Programs  
317-232-6566; ahenning at ifa.in.gov



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## CATEGORICAL EXCLUSION

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### I. PROJECT IDENTIFICATION

Project Name and Address: Town of Hebron – Ultraviolet Disinfection System  
106 East Sigler  
Hebron, IN 46641

SRF Project Number: WW 09 98 64 01

Authorized Representative: Don Ensign, Council President

### II. PROJECT LOCATION

The Town of Hebron is located in Boone Township, Porter County, at the intersection of US 231 and SR 8. The site of the proposed project is located inside the existing Ultraviolet (UV) disinfection building at the existing Wastewater Treatment Plant (WWTP) in the east central portion of Hebron, located at 101 Utility Drive. See Figure 1.2.

### III. PROJECT NEED AND PURPOSE

The existing UV disinfection system is a low pressure, low output manual cleaning horizontal bulb system. The 19 year old system is in poor condition with deteriorated ballasts and bulb connections. The existing air lift effluent pumps used during the effluent stream high flow are unable to provide sufficient pressure against the elevated WWTP effluent receiving stream. Therefore, controlling the UV channel water level has proven problematic due to the plant effluent flow backing up to the UV channel. As a result, the town of Hebron wastewater treatment plant has violated its effluent NPDES Permit E-Coli limits on several occasions.

The proposed project will replace the existing UV equipment with a new low pressure, high output automatic cleaning units. Additionally, the existing inadequate air lift effluent pumps will be replaced with two 7.5 horsepower (each) constant speed propeller pumps with modulating gate capable of pumping the plant effluent flow during the receiving stream high flows when the elevated discharge stream prevents the gravity discharge of the effluent from the WWTP.

The following alternatives were evaluated and rejected for addressing the above deficiencies with the current WWTP facility:

No Action - The “no action” alternative was not considered as a viable option because it would allow the continued violations of the Town’s NPDES effluent E-Coli limits.

Regionalization - The regionalization option was considered not feasible in light of the fact that there are no other treatment plants in the surrounding area.

Phasing - The phasing alternative was considered not feasible because the UV disinfection system is dependent upon the high stream level effluent pumps to properly control the UV channel water level. The existing pumps are not capable to manage this function.

#### IV. ESTIMATED PROJECT COST AND FUNDING

##### A. City of Carmel, Headworks Facility Project – Selected Plan Cost Summary

###### Construction Costs

|                        |                 |
|------------------------|-----------------|
| UV equipment           | \$130,000       |
| 2 Effluent Pumps       | <u>\$70,000</u> |
| Construction Sub-Total | \$200,000       |
| Contingencies (10%)    | <u>\$20,000</u> |
| Construction Total     | \$220,000       |

###### Non-Construction Costs

|                          |              |
|--------------------------|--------------|
| Administrative and Legal | \$12,000     |
| Engineering Design       | \$12,500     |
| Engineering Construction | \$1,500      |
| Engineering Planning     | \$7,000      |
| Project Inspection       | \$1,500      |
| Start-Up Costs           | <u>\$500</u> |

Non Construction Sub-Total \$35,000

**Total Project Cost \$255,000**

- B. The Town of Hebron will finance the UV Disinfection project with a 20-year loan in the amount of approximately \$255,000 from the State Revolving Fund (SRF) Loan Program at an interest rate to be determined at the time of the loan closing. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

#### V. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

The proposed project will be conducted within the existing UV disinfection building.

The construction and operation of the proposed project will have no impact on wetlands, endangered species and will not be located within the 100-year floodplain.

Figure 5.3 shows the historic sites and structures of the Town of Hebron. There are no known historic, architectural or archaeological sites that will be impacted by this project. The SRF's finding pursuant to Section 106 of the Historic Preservation Act is: "no historic properties affected."

#### VI. PUBLIC PARTICIPATION

A properly noticed public hearing was held on April 21, 2009 at 6:30 pm, at the Hebron Community Center located at 611 N. Main Street. No written comments were received in the 5-day period following the hearing.

